

CLAIMS

1. An analog electronic timepiece, comprising: a plate-like vibrator; a driven body driven with a vibration of the vibrator; and a time-indicating mechanism operating with a drive of the driven body directly or via a transfer mechanism.

2. The analog electronic timepiece according to Claim 1, wherein the plate-like vibrator is a piezoelectric actuator which comprises a diaphragm formed by stacking at least one plate-like piezoelectric element and a plate-like reinforcing member; at least one fixing portion for fixing the diaphragm to a supporting body; and an abutment portion disposed at a longitudinal end of the diaphragm, and in which, by feeding a drive signal to the piezoelectric element, the piezoelectric element expands and contracts so as to generate vibrations causing the diaphragm to expand and contract in the longitudinal direction thereof as well as in a direction at an angle with the longitudinal direction so that the driven body is driven with a displacement of the abutment caused by these vibrations, and wherein the abutment portion and the driven body are pressed by pressing means.

3. The analog electronic timepiece according to Claim 1 or 2, wherein the vibrator is disposed so as not to overlap

two-dimensionally with the driven body or the transfer mechanism.

4. The analog electronic timepiece according to Claim 1 or 2, wherein the vibrator is disposed so as to overlap two-  
5 dimensionally with a mechanism including the transfer mechanism and the time-indicating mechanism.

5. The analog electronic timepiece according to Claim 1 or 2, wherein, among component members constituting the analog electronic timepiece, the vibrator is disposed so as  
10 to overlap two-dimensionally with a part of the component members which do not affect an increase in thickness after its arrangement.

6. The analog electronic timepiece according to Claim 1 or 2, wherein the driven body comprises pressing means for  
15 pressing the vibrator.

7. The analog electronic timepiece according to Claim 1 or 2, wherein the vibrator comprises pressing means for pressing the driven body.

8. The analog electronic timepiece according to Claim 7,  
20 wherein a pressing force of the pressing means is exerted substantially in a circumferential direction of a driven wheel which is the driven body and is the first to be driven among the transfer mechanism.

9. The analog electronic timepiece according to Claim 7,  
25 wherein a pressing force of the pressing means is exerted

substantially in the center-oriented direction of a driven wheel which is the driven body and is the first to be driven among the transfer mechanism.